

16



Nucleotide

Entrez	PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	Book
Search Nucleotide <input type="checkbox"/> for				<input type="button" value="Go"/> <input type="button" value="Clear"/>				
Limits			Preview/Index		History	Clipboard	Details	
Display <input type="button" value="default"/> <input type="checkbox"/>		Show: <input type="button" value="20"/> <input type="checkbox"/>	<input type="button" value="Send to"/> <input type="button" value="File"/> <input type="checkbox"/>		<input type="button" value="Get Subsequence"/> <input type="button" value="Features"/>		Links	
1: S75275, RVLG=vasa-like ge...[gi:806463]								

LOCUS S75275 3030 bp mRNA linear ROD 15-MAY-1995
 DEFINITION RVLG=vasa-like gene protein [rats, Wistar-Imanishi, testis, mRNA, 3030 nt].
 ACCESSION S75275
 VERSION S75275.1 GI:806463
 KEYWORDS .
 SOURCE Rattus sp.
 ORGANISM Rattus sp.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 REFERENCE 1 (bases 1 to 3030)
 AUTHORS Komiya,T. and Tanigawa,Y.
 TITLE Cloning of a gene of the DEAD box protein family which is specifically expressed in germ cells in rats
 JOURNAL Biochem. Biophys. Res. Commun. 207 (1), 405-410 (1995)
 MEDLINE 95160706
 PUBMED 7857296
 REMARK GenBank staff at the National Library of Medicine created this entry [NCBI gibbsq 159937] from the original journal article.
 FEATURES Location/Qualifiers
 source 1..3030
 /organism="Rattus sp."
 /mol_type="mRNA"
 /db_xref="taxon:10118"
 gene 1..3030
 /gene="RVLG"
 /note="vasa-like gene protein, RVLG protein"
 CDS 266..2407
 /gene="RVLG"
 /note="putative DEAD box protein; This sequence comes from Fig. 1; RVLG protein"
 /codon_start=1
 /product="vasa-like gene protein"
 /protein_id="AAB33364.1"
 /db_xref="GI:806464"
 /translation="MGDEDWEAEILKPHVSSYVPVFEKDKYSSGANGDTFNRTSASSS
 EMEDGPSGRDHFMRSGFSSGRNLGNRDIGESSKRETTSTTGGFGRGKGFGNRRGFLNNK
 FEEGDSSGFWKESTNDCEDTQTRSRGFSKRGGYPDGNDEASGPFRGGRDSEYDQDQ
 GSQRGGGLFGSRKPAAADSGSGDTFQSRSGNARGAYKGLNEEVVTGSGKNSWKSEAEG
 GESSDIQGPKVTYIPPPPPEDEDSIFAHYQTGINFDKYDTIILVEVSGHDAPPAILTF
 EANLCQTLNNNIAKAGYTKLTPVQKYSIPIVLAGRDLMACAQTSRKTAFLPILAH
 MMRDGITASRFKELQEPECIIVAPTRELINQIYLEARKFSFGTCVRAVVIYGGTQFGH
 SIRQIVQGCNILCATPGRLMDIIGKEKIGLKQVKYLVLDEADRMLDMGFGPEMKKLIS
 CPGMPSKERQRQLLFSATFPPEIQRLAGEFLKSNYLFVAVGVGGACRDVQQSILQVG
 PVFKKRKLVEILRNIGDERPMVFETKKADFIATFLCQEKITTSIHGDREREQ
 ALGDFRCGKCPVLVATSVARGLDIENVQHVINFNLPSIDEYVHRIGRTGRCGNTGR
 AISFFDTESDNHLAQPLVKVLSDAQQDVPAWLEEIFSSYAPPSFSNSTRGAVFASFD
 TRKNFQGKNTLNNTAGISSAQAPNPVVDDESWD"

KAGYTKLTPVQKYTIPIVLAGRDLMACAQTGSGKTAFFLPILAHMMRDGITASRFKE
LQEPECIIAVPTRELINQIYLEARKFSFGTCVISVVIYGGTQFGHSVRQIVQGCNILC
ATPGRLMDIIGKEKIGLKVQLVLDDEADMGAPEIKKLISCPGMPSKEQHQL
LFSATFPEEIQLAGDFLKSNYLFVAVGQVGGACRDVQQTILQVQYQKEKSLLRFYE
NIGDERTMVVFETKKKADFIATFLCQEKSSTSIIHGDRREQREREQALGDFRCGKCPVL
VATSVAARGLDIENVQHVINFDLPSTIDEYVHRIGRTGRCGNTGRAISFFDTDSNHL
AQPLVKVLSDAQQDVPAWLEEIAFSTYVPPSFSSSTRGGAVFASVDTRKNYQGKAHVE
YSGDFFTSSOSS"

ORIGIN

1 ttggaaagag gaaaggcctt tggaaacaga ggtttttaa ataacaagt tgaagaaggt
61 gatacgctcg gtttctggaa agagtctaatt aatgactgtg aagataatca gactcgaagc
121 agagggtttt ccaagcgagg tggctgc当地 gatggaaacg attcagaagc atcaggcccg
181 ttcagaagag ggggaagagg cagtttccga ggctccgtg gaggatttg tctagaaga
241 ccaaatacgta aatctgacca agatcagggg acacagtgtg gtggggctt tctgggtct
301 gggaaaccag cagcaagtga ttccaggcaat ggtgacactt accaaacgca aagtggaaat
361 ggtcgagggtg gttacaaaagg tttaaatgaa gaagtagtaa caggttctgg aaagaattct
421 tgaaggtcag aaactgaagg aggtgaaagc agtgatagtc aaggccaaa agtgacatata
481 atacccccccc ctccaccaga ggatgaggac tccatcttgc cacattatca gacaggcata
541 aactttgata aatatgacac catacttgtt gaagtatctg gacatgatgc accacccgca
601 attttgactt ttgaagaagc taatctctgt cagacactga ataacaacat tcgtaaagct
661 ggctataacta agcttactcc tggcagaag tacacgattt ccattgtatt agcaggacga
721 gatttgatgg ctgtgctca aacagggtct ggaaagactg cagttttctt ctgcctatt
781 ttggctcata tgatgcggg tggataact gccagtcgt ttaaagaact gcaggaacca
841 gagtgttatta ttgttagcacc aactcgagaa ctgatcaacc aaatttactt ggaaggcaga
901 aaattttctt ttgggacttg tggataatctt gttgtcatat atggagggac ccagtttgg
961 cattcagttc gacagatagt acaagggtgt aacatattgt gtgctactcc agggaggcty
1021 atggacatca taggcaaaga aaagattggc ctcaacaag tcaagtactt agttttggat
1081 gaagctgata gcatgtaga catgggtttt gcaccagaga tcaagaaact aattttctgt
1141 ccaggaatgc catcaaagga acaacaccaa acccttttat tcaagtgtac tttccagaa
1201 gaaatccaga ggttggctgg ggattttctt aagtccaattt atttgggtt tgctgttggg
1261 caagtggag gagctgtcag agatgttcaag cagacgattt ttcaagttgg ccagtatcaa
1321 aaagagaaaa gcttggtagg attctacgaa aacataggta atgaaagaac tatggcttt
1381 gttgaaacca agaaaaaaagc cgatttcattt gcaactttt tttgtcaaga aaaaatatca
1441 agtacaagta ttcatggta tcgggaaacag agggagagag agcaagctt tggagatttt
1501 cgtgtggaa agtgccttcaat tttgttgc acttcagtgg ctgcccagg gcttgatatt
1561 gaaaatgttc aacatgttat caattttgac ttcccttcta ccattgtga gtatgttcat
1621 cgaattggac gcactggccg ctgtggaaat actggcagag cgattttttt ttttgatact
1681 gactctgata atcatttagc acagccctta gttaaagtac tgcctccag cttcaagtgc
1741 gtccccgcattt ggctagaaga gattgccttc agtacctatg tgcctccag cttcaagtgc
1801 agcacaagag gggggggccgt gtttgcattt gttgacacga ggaagaattt ccagggccaa
1861 gcacacgtt aatacagcg ggtttcttcc ttcacaagct cccaaatccag ttgtatgacga
1921 atcatggggcc

11

[Disclaimer](#) | [Write to the Help Desk](#)
NCBI | NLM | NIH

May 3 2004 07:33:01

181 tggaaaatgac aagtcaaaca gtgaaggtagc tgaaggtgc tcatggaaaa tgactgggt
241 ttcgttcagg gggagaggag gcaggggagg atcacgagga ggcagaggag gcttttagcgg
301 ttttaaatca gaaattgatg agaatggcag cgatggaggt tggaaacggag gtgaaagtgc
361 aggaagagga cgcgggttccgtgttgg ttttcgcagt gctcccgat atgaaaataga
421 tgaaaataga aatgatgatg gttggaaagg aggtgaaagc cgaggttagag gtcgagggtgg
481 ttccgggggt agtttcgtg gaggtttccg tgcgtgttgg aatgaagaca ctgggagaag
541 aggctttgga agagaaaata atgaaaatgg aaacgatgag ggaggagaag gcagaggaag
601 aggtcggttgg ggtttccggg gtgggtttcg tgatgggtt ggtgatgaga gtggaaaaag
661 aggcttcgga agaggaggtt ttagaggccc gaatgaggaa gtatttcca aggtcacaac
721 tcagacaaag ttggatcaag aaggaagtga aatgcagga cccaagggtt tttatgtgcc
781 gccgcctcct ccagaggagg agagctcgat attctcccat tatgcaacag gcattaatt
841 tgacaaatata gatgatattc ttgtggacgt gagtggcagc aatcctccaa aagcaattat
901 gacttttgag gaagcaggac ttgtgactc actgagcaaa aatgtatcaa agtctggata
961 tgtgaagcct acacctgttca agaaacatgg cattcccatc atttcagctg gacggatct
1021 aatggcttgc gtcagactg gatcaggaaa aacggcggcc ttccctgctgc ctatccata
1081 gcgcctttagt actgatgggt tggcagccag caagtcagt gagatacagg agcctgaggc
1141 cataatcggt gctccacca gagaacttat caatcagatc tatctggagg ccaggaagtt
1201 tgcatacggtt acctgtgtac gacctgttgc gtttatggg gttataataa ctggatatac
1261 tatccgagag gttttaaagg gtcgaatgt tctgtgtgt actcctggaa gattgcatga
1321 cctcattggt cgtggaaaga ttggcctgag taaagtgcgc tatctagtgc tggatgaagc
1381 agacagaatg ctggacatgg gctttagcc agaaatgcgc aaactgggtt cgtctccctgg
1441 tatgcctca aaagaggaac gacaaaccct catgttcagt gccacctacc ctgaagatata
1501 tcaaagaatg gtcgtgtact ttcttaaagt ggactatatt ttccctgctg ttgggtgttgt
1561 ggggtggagca tgcagtgtat tggagcaaac cgttgttcag gtggaccagt actcaaagag
1621 ggaccagctg cttgaattgc tcagagcaac aggtaatgag cgcacaatgg tttttgtgg
1681 aacccaaaaga agtgcgtatt tcatacgcaac atttctctgt caagagaaga tctcaaccac
1741 aagcatccat ggtgatcggtt aacagcgaga gcgagagaaa gctctcgtt atttcgct
1801 tggccactgt ccggttctgg tcgcccacatc tgcgtgtact agaggcctgg atattgac
1861 agtccagcat gttgtgaatt ttgacatgcc cagcagcatc gatgagttat tccatcgcat
1921 aggaagaact ggacgtgtt ggaacaccgg tcgcggcgtt tcctttttt accccagatgc
1981 tgacactcca ctagctcgct ccctggtcaa agtccttca gggcccaac aagttagttc
2041 aaaatggctg gggaaagttt ctttcgtgc tcatggcaca acaggcttca accccacgtgg
2101 aaagggtttt gcatctacag actcgccgaa gggaggttcc ttaaagagcg atgagccgc
2161 accatcacaa acatctgccc cgagcgcagc agtgcgtca gacgatgagg aatggaaata
2221 actggcctca cacctgttat atttattttt tttttttttt atttgcgtca gcttcttcaa
2281 taccatttca ggtatattttt taatgttgc tgcgtgtactt agcatttagga taaagctgtt
2341 gtattnagag tcacattgaa tgctgttagt ttgacacttca ggacgataat caagactaat
2401 accttttggc agtttgattt gatcatctt ttggatcac tcgtttggac tggagcaca
2461 ctgaatttagt ggattttgtt tactagagca caagtgcaga agtgggtggg tttgtttat
2521 cacattttaa cacttttgc taggagtgtt ttgagttttt taagctttca cctaaagggtg
2581 ttccctacag ttaaatctat taatcagttc tattgttgc tgcgtactt tgcgtactt
2641 ttcttgcatttccgttca tgaagccaga gtatagaaca agaaacttgt tttgcagatg
2701 taccttgcca gataaaggta gctaaagtca ttgtttaaca gacatctttaaattttaaa
2761 gtcaaaaatgt tgataaaaattt cagtcaagag gcagtgactt actgtaaacag agcggtgctt
2821 cctcacttagc tgaagtggttcaaaaataaaq acqqatactq qtqac

11

[Disclaimer](#) | Write to the Help Desk
NCBI | NLM | NIH

LVATSVAAARGLDIEQVQHVVNFDMPSIDEYVHRIGRTGRCGNTGRAVSFFNPESDTP
LARSLVKVLSGAQQVVPKWLEEVAFSAHGTGPNPRGVFASTDSRKGGSFKSDEPPP
SQTSAPSAAAAADDEEWE"

protein_bind

2255..2277
/gene="vlg"
/note="similar to nanos response element"
/bound_moiety="a putative nanos-dependent factor"
/evidence=not_experimental

)RIGIN

1 cttctgaaaa aaagtctcac ctaaaattac ccaatatgga tgactggag gaagatcaga
61 gtcgggttgt gtcttgacg tcaggattt gaggcgctgg aaatgacaag tcaaacagt
121 aaggtactga aggtactca tggaaaatga ctggtgattc gtttaggggg agaggaggca
181 ggggaggatc acgaggaggc agaggaggct ttagcgggtt taaatcagaa attgatgaga
241 atggcagcga tggaggttgg aacggagggt aaagtgcagg aagaggacgc ggtggttcc
301 gtggtggtt tcgcagtgcc tccctgtatg aaaatgtatgaaatgatgatgatgggtt
361 ggaaaggagg tgaaagccga ggttagaggc gaggtgggtt cgggggtgg tttcggtggag
421 gtttccgtga tggtggtat gaagacactg ggagaagagg ctttggaaaga gaaaataatg
481 aaaatggaa cgatgaggga ggagaaggca gaggaagagg tcgtgggtt ttccgggtg
541 gtttccgtga tggtggtgtt gatgagagtg gaaaaagagg cttcggaaaga ggaggttta
601 gaggccggaa tgaggaagta tttccaagg tcacaactgc agacaagttt gatcaagaag
661 gaagtgaaaa tgcaggacc aagttgttt atgtgccccc gcctcctcca gaggaggaga
721 gctcgatatt ctccccattat gcaacaggca ttaattttga caaatatgtat gatattctt
781 tggacgttag tggcagcaat cctccaaaag caattatgac ttttgaggaa gcaggactt
841 gtgactcact gagcaaaaat gtatcaaagt ctggatatagt gaagcctaca cctgttcaga
901 aacatggcat tccccatcatt tcagctggac gggatcta atggtgtgtt cagactggat
961 caggaaaaac ggcggcccttc ctgctggcca tcctacacgc ctttatgact gatgggttgg
1021 cagccagcaa gttcagtgag atacaggagc ctgaggccat aatcggttccc accaccagag
1081 aacttatcaa tcagatctat ctggaggcca ggaagtttgc atacgggacc tgggtacgac
1141 ctgtgtgtt ttatggaggt ataaataccg gatatactat ccgagagggtt taaaagggt
1201 gcaatgtatt gtgtgtact cctggaaatgat tgcatgacat cattgggtcg gaaagattt
1261 gcctgagtaa agtgcgttat ctgttctgg atgaagcaga cagaatgtcg gacatggct
1321 ttgagccaga aatgcgc当地 ctgtggcg tccctggat gcctcaaaa gagaaacgac
1381 aaaccctcat gttcagtgcc acctaccctg aagatattca aagaatggct gctgactt
1441 ttaaaatgttgc ctatattttc ctgtgtgtt gttgtgttgg tggagcatgc agtgtatgtt
1501 aacaaaccat tggtcaggtg gaccgtact caaagaggga ccagctgtt gaattgtca
1561 gagcaacagg taatgagcgc acaatgggtt ttgttggaaac caaaaagaatg gctgatttca
1621 tagcaacatt tctctgtcaa gagaagatct caaccacaag catccatggt gatcggaac
1681 agcgagagcg agagaaaagct ctcaagtgtt ttcgccttgg ccactgtccg gtttggct
1741 ccacatctgt agtgcgttgc ggcctggata ttgagcaagt ccagcatgtt gtgaatttt
1801 acatgcccag cagcatcgat gagatgtcc atcgcatagg aagaactggc cgctgtgg
1861 acaccggcgtc ggcgtgtcc ttttttaacc cagactctga cactccacta gctcgctccc
1921 tggtaaaatg ctttcaggg gccaacaag tagttccaa atggctggag gaagttgcct
1981 tcagtgtca tgggacaaca ggcttcaacc cacgtggaa ggtgtttgca tctacagact
2041 cgccgaaggagg aggatcctt aagagcgatg agccgcacc atcacaaaca tctgccccga
2101 gtgcagcagc tgctgcagac gatgaggaat gggataact ggctcaaac ctgttatatt
2161 tatttttattt ttatgttatt tggtcgagct tcttcataac catttcagga tattttttaa
2221 tggtaatga cttaaaatgtc attaggataa agctgtgtt ttttagagtca cattgaatgc
2281 tggtaggtttg acctcaagga caataatcaa gactaatacc ttttgcgtt gatgtt
2341 catcttttgc gtatcactcg tttggactgg agcacaactg aatttagtggat tttgtttac
2401 tagagcacaatgtc ggggtgggtt gtttaatcactttaacac tttgtcttagga
2461 ctaaaaaaaaaaaaaaa aaaaaaaaaaaa aa

KATSFFNVQDDHVIARPLVKILTDQEVPAWLEEIAFGGHGALNSFYADSMGEQAG
GNAVTPSFAQEEEASWD"
3'UTR
2169..2502
/gene="VLG1"

GIN

1 gattcaggag ctttcctgga gtctcgcttg atagtcacct gcaagttggg cagattaaac
61 cgagaatgga gaaaaactgg gatactaaaa ttgaaaactga aaaacccaact tatgtaccga
121 atttcagtac ctggagacc gaaaatacag ataattacag tgcctactct aacaatgata
181 tcaacaatca aaatttatgtat tctgaaagaa gttttggaaa ccgaggaggt tatkcggtctg
241 aaaggagtag gcctagtaat ttaacagag gtatcgaaac tgaaagggga agaggacgag
301 ggtttggta taatcgaaat gataattatt cttctgagag agatgtgtt ggagatgatg
361 agaggatca acgcagaggg tttccaggca gaggtggata taatggcaat gaagatggac
421 agaaaacctaa tgcctttcga ggaagaggtg gttcagaaa tgagaatgaa cagcgtcgag
481 gctttggaga aagaggagga tttagaaagcg agaatggaca gcgaaacttt gataacagag
541 gagatttgg taattcttgtt gaagaagagg atcgtccacg ttcttatggg agaggtgggt
601 ttaacaactc tgatacttgtt ggaagaggac gaagaggtgg ccgaggtgg ggaagccagt
661 atggtgata caaaggaaga aatgaagaag ttggtgtaga atctggaaaa agtcaagaag
721 aaggaatga aaaagatgaa aaaccaaaaa agtgtaccta tattcctccg cctccacctg
781 atggtaaaga taatatattc cggcaataacc agtctggaaat caatttgtat aaatatgatg
841 agattcttgtt tgatgtgaca gggaaaggatg ttccctcctgc catactgact ttgttgaagaag
901 ctaacccccc tggaaacacta agaagaaatg ttgcttagagc tggatatgta aagctaacac
961 cagtgcagaa acacagcatc cctattataa tgctggcgtc tgatttaatg gttgcgcac
1021 agactgttc tgtaaaact gctgctttc tttgccaat tctcagttat atgatgaatg
1081 aaggaattac agctagtcg tatttacaac ttcaaggaaacc agaagccata attattgccc
1141 ctaccagaga acttattaac cagatatac tcgatgctcg aaaattttca tatggAACCT
1201 gcgtgcgtcc agtagttgtat tatggtgttataa tacaacctgt acatgcaatg agggacgttg
1261 aaaaagggtg caatataactt tgtcaaccc ctggaaagatt gctggacata gtaagcaaag
1321 aaaaaattgg ctaagtaag ctaagatatac tagttctggta tgaagcggat cgcattttgg
1381 atatgggatt tgccccggaa atagaaaaat taatgacaaa gccaggaatg ccaacaaaag
1441 aaaagcgcaca aacactaatg ttcaagtcata cctatcctga ggaaatcgg agttggctt
1501 cgaattattt gaaatctgaa cattttttt ttgtggcgg attagttggaa ggagcttggta
1561 gtatgtggc acaaacagtt cttgaaatgc gggaaatgg aaagatggaa aagctacttg
1621 aaattctgaa aagctcagag aaagagcggaa ctatgattt ttgtgaatataca aaaaagaagg
1681 cagattttat tgctggttac cttgtcaag agaaatttttca atcaacaagc attcacggtg
1741 atagagaaca ataccaaaaga gagagtgc tctgggattt cagaactgga aagtgtactg
1801 ttattgtctg cacagcagtt gctgccagag gttggatatt tgaaaatgtt caacacgtga
1861 taaattatga ctttcctaaag ggaaatgtt gatcgtccaa tagaatttgtt ctttgcgtc
1921 gctgtgttac caccggaaag gcaacatcat tttcaatgt tcaggatgac catgtgattt
1981 ctcgtccct tgtaaaattt cttaccatg ctcataaga agtccctgct tggttagaaag
2041 aaattgcctt tgccccccat ggagcttga atagctttt tgcagcggac tctatggcg
2101 aacaggccgg aggaaatgcc gtcactactc cttcattcgc acaagaagaa gaggctagct
2161 gggattaaat agtagaatca aattgcagaa ttcaaatatt gttaaaatgt ttaaaaagaa
2221 atcttggttt ataacatctt ttcaagagc tggaaatgacg aaaaaactcc ttatgtgaga
2281 attatcaatc gcaagcagag caagttattt gatttagttt gaacctttaa gagaatgtgt
2341 ttacatcaa cttggccatc atttatttca ttaaaacctt tattgtttaa ctgcaactga
2401 aagtttgact tgataatta tttaaaccatg ttttggc tttttcttcc aaaacaagca
2461 ccaataaacc cacatcattc tgaaccggaa aaaaaaaaaaa aa

[Disclaimer](#) | [Write to the Help Desk](#)
[NCBI](#) | [NLM](#) | [NIH](#)

BLANK SHEET(USPTO)

BLANK SHEET(USPTO)